

Project Manager:

Site Specific Health and Safety Plan Revision 11 9/20/2012 Yakima Valley Dairies Project Name: Project Number: SK030335 Client Name: George DeRuyter & Sons Dairy Date: 5/2/2013 5/14/2013 Revision: Approvals: Lisa Sebesta HASP Developer: Joel Hunt HASP Reviewer:

Kevin M. Freeman

Emergency Information

Site Address: , Outlook, WA 98953 **Emergency Phone Numbers:** Emergency (fire, police, ambulance) 911 Emergency (facility specific, if applicable): Sunnyside Community Hospital 509.837.1500 Emergency Other (specify) Poison Control 800.332.3073 Client Contact WorkCare (non-lifethreatening injury/illness) 1-800.455.6155 Project H&S John De Jong 1.408.772.5714 Tom Mullen 208.755.1094 Task Manager Kevin Freeman Project Manager 1.509.981.4747 Corporate H&S Specialist Tim Hess 720.244.4931 Corporate H&S Director Mija Coppola 410.923.7823 **Hospital Name and Address:** Hospital Phone Number: 509.837.1500 **Incident Notification Process** 1 Dial 911/Facility Emergency Number/WorkCare as applicable Kevin Freeman 2 Contact PM/Supervisor 3 Contact Corporate H&S Mija Coppola 4 Contact Client George DeRuyter & Son Dairy, LLC Complete below, as applicable, or clear cell contents: Location of Assembly Area(s): Outside of the exclusion zones

Route to the Hospital



 Head south on Dekker Rd toward Kellum Rd About 11 mins 	go 4.3 mi total 4.3 mi
Turn left onto Yakima Valley Hwy About 9 mins	go 5.7 mi total 10.0 mi
3. Turn right onto N 9th St About 2 mins	go 0.4 mi total 10.4 mi
4. Turn left onto Franklin Ave	go 295 ft total 10.5 mi
Continue onto Tacoma Ave Destination will be on the left	go 62 ft total 10.5 mi
Sunnyside Community Hospital 1016 Tacoma Ave, Sunnyside, WA 98944	

General Information

Site	Type (select all applicable	who	ere work will be conducted):			
	Active Bridge Buildings Commercial Construction Government Inactive Industrial Landfill Marine Mining		Railroad Remote Area Residential Retail Roadway (public, inlcuing right-of-way) Secure Unknown Unsecured Utility Other (specify): Agricultural Land/Farm			
	Mining Parking Lot/Private Roadwa	a\/				
Suri	Surrounding Area and Topography (select one): Surrounding area and topography are presented in the project work plan Surrounding area and topography (briefly describe): The site is located in the Yakima Valley of Wahsington. Topography is generally flat. Land use is primarily agricultural.					
Site	areas near Sunnyside, Was confined animal operations	s <i>crit</i> majo shino and maj	pe): or dairy operations and surrounding residential gton. Presently the general land use is rural with other agricultural operations. The surrounding ority of them containing large tracts of land regularly			

Project Tasks

Other:

The following tasks are identified for this project:

Examples: "Drilling/soil sampling", "Surveying", "General Inspections", "Construction Management/Inspections" 1 Soil Sampling Using Manual Methods (i.e. Hand Auger) 2 3 4 ☐ Subcontractor H&S information is attached ☐ ARCADIS Standards apply to augment JSA Utility clearance required. [list standard(s) below] ☐ ARCADIS Field H&S Handbook sections apply (list below) Comments: H&S Standards- Dailty Safety Meetings/Tailgates, First Aid, General H&S Rules and Safe Work Permits, HASP, Stop Work, General Housekeeping, Personal Hygiene and Field Sanitation, Personal Safety and Other Unique Site Conditions, Heat Stress, Biological Hazards, Illumination, Medical Surveillance, Vehicle Safety and Driving, Daily Tailgate Meetings, Biological Hazards, and Personal Protective Equipment. **Roles and Responsibilities** Name Role Additional Responsibilities (Describe) 1 Kevin Freeman РΜ 2 Tom Mullen TM 3 John De Jong Field Lead 4 John De Jong SSO 5 **Training** All ARCADIS employees are required to Selected ARCADIS employees are required to have the have the following training: following additional training: Names or Numbers from above 40 hr HAZWOPER w current refresh. Not applicable √ First aid/CPR/BBP 24 hr HAZWOPER All Employees 10 hr Construction 30 hr Construction 10 hr Construction HazMat #1 (Ground/Air/MOT) ✓ HazMat #4 (MOT) HazMat #1 (Gr./Air/MOT) HazCom/Emergency Action Plan HazMat #4 (MOT) ✓ H&S Orientation (classroom); or Confined space entrant H&S Orientation (on-line) Confined space rescue ✓ PPE **Excavation CP** Respiratory protection Electrical (NFPA 70E) MSHA Lockout/Tagout Smith System (on-line) H&S Orientation (class) OTS/eRailsafe OTS/eRailsafe Client specific: Smith Sys. (hands on) **Boating safety**

Other:

Hazard Analysis

Risk Assess	sment Matrix	Likelihood Ratings** (likelihood that incident would occur)						
Consequen	Α	В	С	D				
People	Property	0 Almost impossible	1 Possible but unlikely	2 Likely to happen	3 Almost certain to happen			
1 - Slight or no health	Slight or no damage	0 - Low	1 - Low	2 - Low	3 - Low			
2 - Minor health effect	Minor damage	0 - Low	2 - Low	4 - Medium	6 - Medium			
3 - Major health effect	Local damage	0 - Low	3 - Low	6 - Medium	9 - High			
4 - Fatalities	Major damage	0 - Low.	4 - Medium.	8 - High	12 - High			

Division	Business Unit
Environment	REM
Task 1: Soil Sampling Using Manual Methods (i.e. Hand Aug	ger)
Hazardous Activity #1	
Field-Mobilization/Demobilization - from a site	
Hazard Types (unmitigated ranking H-High, M-Medium, L-Low):	
Biological M Chemical L Driving M	Electrical L
Environmental L Gravity L Mechanical L	Motion L
Personal Safety M Pressure L Radiation L	Sound L
Overall Unmitigated Risk: Medium Mitigated Risk Primary Controls: TRACK Field H&S Handbook Engineering Controls	: Low if utilizing:
Primary Controls: TRACK Field H&S Handbook Engineering Controls	
Secondary Controls: JSAs Job Briefing/Site Awareness PPE (see HASP "PPE"	section) Admin. Controls
Hazardous Activity #2	
Field-Biological - insects, spiders, snakes, etc	
Hazard Types (unmitigated ranking H-High, M-Medium, L-Low): Biological M Chemical - Driving -	Electrical -
Environmental - Gravity - Mechanical -	Motion -
Personal Safety - Pressure - Radiation -	Sound -
Overall Unmitigated Risk: Medium Mitigated Risk	: Low if utilizing:
Primary Controls: TRACK Engineering Controls PPE (see HASP "PPE" sect	
Secondary Controls: JSAs HASP Job Briefing/Site Awareness PPE (see HASP	P "PPE" section) Housekeeping
Hazardous Activity #3 Field-Utilities- pre-clearing utilities by manual means (auger, probe, shovel, etc)	
Hazard Types (unmitigated ranking H-High, M-Medium, L-Low): Biological M Chemical L Driving -	Electrical L
Environmental - Gravity M Mechanical M	Motion M
Personal Safety - Pressure M Radiation -	Sound M
Overall Unmitigated Risk: Medium Mitigated Risk Primary Controls: TRACK H&S Standards Job Briefing/Site Awareness PPE	
The second secon	(666) (766)
Secondary Controls: Specialized Equipment Engineering Controls Admin. Control	rols
Hazardous Activity #4	
Field-Sampling - manual soil sampling (hand auger, trowel, etc)	
Hazard Types (unmitigated ranking H-High, M-Medium, L-Low):	
Biological - Chemical M Driving -	Electrical -
Environmental L Gravity L Mechanical -	Motion M
Personal Safety - Pressure - Radiation -	Sound -
Overall Unmitigated Risk: Medium Mitigated Risk	: Low if utilizing:
Primary Controls: TRACK JSAs PPE (see HASP "PPE" section) Job Rotation	
Secondary Controls: Inspections Specialized Equipment	

Hazardous Activity #5									
Field-Sampling - sample cooler preparation									
Hazard Types (unmitigated	l rankin	g H-High, M-Medium, L-Low):	<u> </u>						
Biological	-	Chemical M	Driving -	Electrical -					
Environmental	-	Gravity M	Mechanical L	Motion L					
Personal Safety	М	Pressure -	Radiation -	Sound -					
Overall Unmitigated Risk:		Medium	Mitigated Risk:						
Primary Controls:		TRACK JSAs Engineering	Controls PPE (see HASP "PPE	" section) See HASP "Monitoring" section					
Secondary Controls:		Job Briefing/Site Awareness Admin. Controls Work Plan							

Risk Assess	sment Matrix	Likelihood Ratings** (likelihood that incident would occur)							
Consequen	ces Ratings*	Α	В	С	D				
People	Property	0 Almost impossible	1 Possible but unlikely	2 Likely to happen	3 Almost certain to happen				
1 - Slight or no health	Slight or no damage	0 - Low	1 - Low	2 - Low	3 - Low				
2 - Minor health effect	Minor damage	0 - Low	2 - Low	4 - Medium	6 - Medium				
3 - Major health effect	Local damage	0 - Low	3 - Low	6 - Medium	9 - High				
4 - Fatalities	Major damage	0 - Low.	4 - Medium.	8 - High	12 - High				

Task 2: 0	
Hazardous Activity #1	
Field-Mobilization/Demobilization	n - from a site
Hazard Types (unmitigated ranki	ing H-High, M-Medium, L-Low):
Biological -	Chemical L Driving M Electrical -
Environmental -	Gravity M Mechanical - Motion L
Personal Safety -	Pressure - Radiation - Sound -
Overall Unmitigated Risk: Primary Controls:	Medium Mitigated Risk: Low if utilizing: TRACK Field H&S Handbook Engineering Controls
Secondary Controls:	JSAs Job Briefing/Site Awareness PPE (see HASP "PPE" section) Admin. Controls
Hazardous Activity #2 Field-Biological - insects, spiders	s, snakes, etc
Hazard Types (unmitigated ranki	ing H-High, M-Medium, L-Low):
Biological M	Chemical - Driving - Electrical -
Environmental -	Gravity - Mechanical - Motion -
Personal Safety -	Pressure - Radiation - Sound -
Overall Unmitigated Risk:	Medium Mitigated Risk: Low if utilizing:
Primary Controls:	TRACK Engineering Controls PPE (see HASP "PPE" section)
Secondary Controls:	JSAs HASP Job Briefing/Site Awareness PPE (see HASP "PPE" section) Housekeeping
Additional Controls:	Field personnel will not be working alone, but will be working in teams of two.
Hazardous Activity #3	
Field-Measurement - water level	s and well sounding
Hazard Types (unmitigated ranki	ng H-High, M-Medium, L-Low):
Biological -	Chemical L Driving - Electrical -
Environmental -	Gravity L Mechanical - Motion M
Personal Safety -	Pressure - Radiation - Sound -
Overall Unmitigated Risk:	Low if utilizing:

Haz	Hazard Communication (HazCom)/Global Harmonization System (GHS) HAZCOM/GHS for this project is managed by the client or general contractor								
	List the chemicals anticipated to be used by ARCADIS on this project per HazCom/GHS requirements. (Modify quantities as needed)								
	Acids/Bases Not applicable Hydrochloric acid Nitric acid Sulfuric acid Sodium hydroxide Zinc acetate Ascorbic acid Acetic acid Other:	Qty <500 ml		Decontamination Not applicable Alconox Liquinox Acetone Methanol Hexane Isopropyl alcohol Nitric acid Other:	Qty ≤ 5 lbs ≤ 1 gal ≤ 4 gal ≤ 1 L		Calibration Not applicable Isobutylene/air Methane/air Pentane/air Hydrogen/air Propane/air Hydrogen sulfide/air Carbon monoxide/air pH standards (4,7,10) Conductivity standards Other:	Qty. 1 cyl 1 cyl 1 cyl 1 cyl 1 cyl 1 cyl 2 1 gal ≤ 1 gal	
	Fuels Not applicable Gasoline Diesel Kerosene Propane Other:	Qty. ≤ 5 gal ≤ 5 gal ≤ 5 gal ≤ 5 gal 1 cyl		Kits Not applicable Hach (specify): DTECH (specify): EPA 5035 Soil (specify): Other:	ecify kit):			Qty1 kit _1 kit _1 kit _1 kit	
	Remediation Not applicable	Qty. - - - -		Other: Not applicable Spray paint WD-40 Pipe cement Pipe primer Mineral spirits	Qty. ≤ 6 cans ≤ 1 can ≤ 1 can ≤ 1 can ≤ 1 gal			Qty. - - - -	
	terial safety data sheet icate below how MSDS			- '	Ss) must be	e ava	ailable to field staff.		
	 Not applicable □ Printed copy in company vehicle □ Printed copy in the project trailer/office □ Printed copy attached □ Printed copy attached □ Electronic copy on field computer □ Contractor MSDSs/SDSs are not applicable □ Contractor MSDSs/SDSs will be on site and located: 						able		
	Bulk quantities of the	following m	ater	ials will be stored:				_	
	044	00			tartar and a second				

Contact the project H&S contact for information in determining code and regulatory requirements associated with <u>bulk storage</u> of materials.

Monitoring

✓	Chemical	air	monitoring	is	not	required	for	this	proi	iect.
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For projects requiring air monitoring, list the <u>relevant</u> constituents representing a hazard to site workers.

Constituent	Max. Conc.	TWA		STEL		IDLH		LEL/UEL	VD	VP	ΙP
	Units		Units		Units		Units	(%)	Air=1	(mm Hg)	(eV)
None		9999		0		0		0	0	0	0
None		9999	_	0		0		0	0	0	0
None		9999]	0		0		0	0	0	0
None		9999]	0		0		0	0	0	0
None		9999]	0		0		0	0	0	0
None		9999	-	0	-	0	_	0	0	0	0
Notes: TWAs are ACGIH 8	B hr-	p-ppm	m-mg/i	m3	c2- cei	ling (2 hr	se-se	ensitizer	"#N/A" -Co	nstituent is i	not in
TLVs unless noted.		s- skin	c-ceilin	g	"9999"	- NA	O-OSH	A PEL	database,	manually en	ter
		r- resipiral	ble i-inha	alable	N-NIO	SH 10 hr	REL		informatio	n	

Monitoring Equipment and General Protocols

Air monitoring is required for any task or activity where employees have potential exposure to vapors or particulates above the TWA. Action levels below are appropriate for most situations. <u>Contact the project H&S contact for all stop work situations</u>. Select monitoring frequency and instruments to be used.

Monitoring Frequency:	
Indicator Tube/Chip Frequency:	>PID/FID action level per SSO instructions

	Instrument	Actio	on Lev	vels	Actions
	Photoionization Detector		<	0.000	Continue work
		0.000	-	0.0	Sustained >5 min. continuous monitor, review eng. controls and PPE, proceed with caution
	Lamp (eV):		>	0.0	Sustained >5 min. stop work, contact SSO
	Flame Ionization		<	0.0	Continue work
	Detector (FID)	0.0	-	0.0	Sustained >5 min. continuous monitor, review eng. controls and PPE, use caution
			>	0.0	Sustained >5 min. stop work, contact SSO
	LEL/O2 Meter	0-10% LE	L		Continue work
		>10-25%	>10-25% LEL		Continuous monitor, review eng. controls, proceed with caution
		>25% LEI	L		Stop work, evacuate, contact SSO
		19.5%-23	.5% C)2	Normal, continue work
		<19.5% C			O2 deficient, stop work, evacuate, cont. SSO
		>23.5% C)2		O2 enriched, stop work, evacuate, contact SSO
	Indicator: □tube □hip	≤PEL/TL\	/		Continue work
	·	>PEL/TL\	/		Stop work, review eng. controls and PPE,
	Compound(s):				contact SSO
П	Particulate Monitor		<	2.5	Continue work
	(mists, aerosols, dusts in	2.5	_	5.00	Use engineering controls, monitor continuously
	mg/m ³)	2.0	>	5.00	Stop work, review controls, contact SSO
	Other:	Specify:		0.00	Specify:

Personal Protective Equipment (PPE)

See JSA for the task being performed for PPE requirements . If the work is not conducted under a JSA, refer to the governing document for PPE requirements. At a minimum, the following checked PPE is required for all tasks during field work not covered by a JSA on this project: Level D or Level D Modified: Specify Type: ∀ Hard hat ☐ Snake chaps/guards Coveralls: Safety glasses ☐ Briar chaps Apron: ☐ Chainsaw chaps Safety goggles Chem. resistant gloves: Face shield ☐ Sturdy boot ✓ Gloves other: Nitrile ☑ Hearing protection ☑ Steel toe boot Chemical boot: Rain suit Metatarsal boot ■ Boot other: Disposable boot covers Other: Traffic vest: As needed Life vest: Task specific PPE: Comments: Medical Surveillance (check all that apply) Medical Surveillance is not required for this project. HAZWOPER medical surveillance applies to all ARCADIS site workers on the project. HAZWOPER medical surveillance applies to all subcontractors on the project. HAZWOPER medical surveillance applies to all site workers on the project except: Other medical surveillance required (describe type and who is required to participate): Client drug and/or alcohol testing required. Hazardous Materials Shipping and Transportation (check all that apply) Not applicable, no materials requiring a Shipping Determination will be transported or shipped A Shipping Determination has been reviewed and provided to field staff

Roadway Work Zone Safety (check all that apply)

A Shipping Determination is attached

Other (specify):

Not applicable for this project
All or portions of the work conducted under a TCP
All or portions of the work conducted under a STAR Plan
TCP or STAR Plan provided to field staff
TCP or STAR Plan attached
Other (specify):

All HazMat will be transported under Materials of Trade by ARCADIS

ARCADIS Commercial Motor Vehicles (CMVs)

This section is applicable to ARCADIS operated vehicles only

This project will **not** utilize CMV drivers

☐ This project will utilize CMV drivers

Site Control (check all that apply)						
 Not applicable for this project. ✓ Site control protocols are addressed in JSA or other supporting document (attach) ✓ Maintain an exclusion zone of						
Decontamination (check all that apply)						
 Not applicable for this project. Decontamination protocols are addressed in JSA or other governing document (attach) ✓ Level D work- wash hands and face prior to consuming food, drink or tobacco. ✓ Level D Modified work- remove coveralls and contain, wash hands and face prior to consuming food, drink or tobacco. Ensure footwear is clean of site contaminants ✓ Level C work - refer to the Level C supplement attached. ✓ Other (specify): 						
Sanitation (check all that apply)						
 ✓ Mobile operation with access to off-site restrooms and potable water ☐ Restroom facilities on site provided by client or other contractor ☐ Project to provide portable toilets (1 per 20 workers) ☐ Potable water available on site ✓ Project to provide potable water (assume 1 gal./person/day) ☐ Project requires running water (hot and cold, or tepid) with soap and paper towels 						
Safety Briefings (check all that apply)						
 ✓ Safety briefing required daily ☐ Safety briefings required twice a day ☐ Safety briefings required at the following frequency: ✓ Subcontractors to participate in ARCADIS safety briefings ☐ ARCADIS to participate in client/contractor safety briefings ☐ Other (specify): 						
Safety Equipment and Supplies						
Safety equipment/supply requirements are addressed in the JSA for the task being performed. If work is not performed under a JSA, the following safety equipment is required to be present on site in good condition (Check all that apply):						
✓ First aid kit ✓ Insect repellent ☐ Bloodborne pathogens kit ✓ Sunscreen ✓ Fire extinguisher ☐ Air horn ☐ Eyewash (ANSI compliant) ☐ Traffic cones ✓ Eyewash (bottle) ☐ 2-way radios ✓ Drinking water ☐ Heat stress monitor ✓ Other: ☐ Tick removal kit, leath€						

H&S Program (check all to	hat apply)			
H&S metrics are provided TIP required at the follow Select One:		int level, refer to account on this project: time(s)	t guidance Define:	1/week
		following frequency on the		
Select One:	mhrs	time(s)	Define:	
Other (specify):				
List tasks anticipated for TII	P activity:			
Drilling & MW Installation				
Signatures				
I have read, understand and I understand that I have the work until corrected.				
Printed Name		Signature		Date
				-
☐ Subcontractor Acknow		ditional sheets if necessa	ary	

You have an absolute right to STOP WORK if unsafe conditions exist!





Document Control Number:TGM	
TOM I was to a complete when the state of the complete was a second of the	1-1/

TGM + project number plus date as follows: xxxxxxxxxxxxxxxx - dd/mm/year

	TA	AILGATE	E HEALTH	& SAFETY	MEETIN	IG FORM	
	•	•			•	Personnel who perform work operate attendance, at least daily.	ations on-
Project Name:	<u> </u>	-		<u> </u>	Project Loc	-	
Date:	Time:	Conducted	by:		Signature/1	Γitle:	
Client:		Client Cont	tact:		Subcontrac	ctor companies:	
TRACKing t	the Tailga	ite Mee	ting				
Think through the	Tasks (list the	tasks for the	e day):				
1			3			5	
2			4			6	
		y activities th	box if there are an	-		If there are none, write "None" here:	
,							
-	be controlled?						
Prework Authoria					Doc#		Doc#
Not applicable		Doc #	Working at H			Confined Space	
Energy Isolation	on (LOTO)		Excavation/T	renching		Hot Work	
Mechanical Lif	ting Ops		Overhead & I	Buried Utilities		Other permit	
Discuss foll	owing question	NS (for some rev	view previous day's post	activities). Check	if yes :	Topics from Corp H&S to cove	er?
Incidents from	day before to re	eview?	Lessons lear	ned from the day	before?	Any Stop Work Interventions y	esterday?
Any corrective	actions from ye	esterday?	Will any wor	k deviate from pl	an?	If deviations, notify PM & clien	t
JLAs or proced	dures are availa	ıble?	Field teams t	o "dirty" JLAs, as	needed?	All equipment checked & OK?	
Staff has appro	opriate PPE?		Staff knows E	Emergency Plan	(EAP)?	Staff knows gathering points?	
Comments:						_	
Recognize the ha	zards (check a	II those that	are discussed) (E	xamples are prov	vided) and △	ssess the Risks (<u>L</u> ow, <u>M</u> edium, <u>H</u>	<u>l</u> igh -
	•			•		efly list them under the hazard cate	_
Gravity (i.e., ladd	der, scaffold, trips)	(L M H)	Motion (i.e., tra	ffic, moving water)	(L M H)	Mechanical (i.e., augers, motors)	(L M H)
Electrical (i.e., u	tilities, lightning)	(L M H)	Pressure (i.e.,	gas cylinders, wells)	(L M H)	Environment (i.e., heat, cold, ice)	(L M H)
Chemical (i.e., f	uel, acid, paint)	(L M H)	Biological (i.e.	., ticks, poison ivy)	(L M H)	Radiation (i.e., alpha, sun, laser)	(L M H)
Sound (i.e., mac	hinery, generators)	(L M H)	Personal (i.e.	alone, night, not fit)	(L M H)	Driving (i.e. car, ATV, boat, dozer)	(L M H)
Continue	TRACK	Proces	s on Pag	e 2			

TAILGATE	HEALTH & SAFETY MEETING I	ORM - Pg. 2		
C ontrol the hazards (Check all and discuss the HASP, applicable JLAs, and other control productions)				iew the
STOP WORK AUTHORITY (Must be addition) Elimination Engineering controls General PPE Usage Personal Hygiene Emergency Action Plan (EAP) JLA to be developed/used (specify)	ressed in every Tailgate meeting - (See state Substitution Administrative controls Hearing Conservation Exposure Guidelines Fall Protection LPO conducted (specify job/JLA)	nents below) Isolation Monitoring Respiratory I Decon Proce Work Zones Traffic Contro Other (speci	edures /Site Control ol	
Signature ar	nd Certification Section - Site St	ff and Visitor	S	
	any/Signature	Initial & Sign in Time	Initial & Sign out Time	I have read and understand the
		┨		
		+		
		+		
		-		
Important Information and Numbers	Visitor Name/Co - not involved in work		any time anyone is o	
All site staff should arrive fit for work. If not, they should report to the supervisor any restrictions or concerns.		hazard or additiona	Il mitigation not record hazard assessment.	
In the event of an injury, employees will call WorkCare at 1.800.455.6155 and then notify the field supervisor who will, in turn, notify Corp H&S at 1.720.344.3844.	In Out	I will be alert to an	y changes in personnerards not covered by t	
In the event of a motor vehicle accident, employees will notify the field supervisor who will then notify Corp H&S at 1.720.344.3844 and then Corp Legal at	In Out	If it is necessary to	STOP THE JOB, I wi	•
1.720.344.3756.	In Out		subcontractor or other	r party with their
In the event of a utility strike or other damage to property of a client or 3rd party, employees will immediately notify the field supervisor, who will then immediately notify Corp	In Out	work unless it is ab	solutely necessary an RACK and I have tho	nd then only
Legal at 1.678.373.9556 and Corp H&S at				
Post Daily Activities Review - Re		Check those app	olicable and exp	ilain:)
Lessons learned and best practices learn	ed today:			
Incidents that occurred today:				
Any Stop Work interventions today?	future works			
Corrective/Preventive Actions needed for	iulure work:			
Any other H&S issues:				
<u>K</u> eep H&S 1 ^s	^{it} in all things	WorkCare - 1.8	00.455.6155	

Employee Signature Form

I certify that I have read, understand, and will abide by the safety requirements outlined in this HASP.

Printed Name	Signature	Date

Subcontractor Acknowledgement: Receipt of HASP Signature Form

ARCADIS claims no responsibility for the use of this HASP by others although subcontractors working at the site may use this HASP as a guidance document. In any event, ARCADIS does not guarantee the health and/or safety of any person entering this site. Strict adherence to the health and safety guidelines provided herein will reduce, but not eliminate, the potential for injury at this site. To this end, health and safety becomes the inherent responsibility of personnel working at the site.

Printed Name	Company	Signature	Date

Visitor Acknowledgement and Acceptance of HASP Signature Form

By signing below, I waive, release and discharge the owner of the site and ARCADIS and their employees from any future claims for bodily and personal injuries which may result from my presence at, entering, or leaving the site and in any way arising from or related to any and all known and unknown conditions on the site

Name	Company	Reason for Visit	Date/Time On Site	Date/Time Off Site

Hazardous Materials Transportation Form

	Vehicle (place X in box)	Type (pick-up, car, box truck, etc.)
Personal		
Rental		
ARCADIS owned/leased		
Government owned		
Trailer		
Materials Transported	Quantity	Storage/Transport Container
List Trained Drivers:		

Hazardous Materials Shipment Form

Material Description and Proper Shipping Name (per DOT or IATA)	Shipment Quantity	DOT Hazard Classification	Shipment Method (air/ground)			
List Shipper (i.e., who we a	re offering the	e shipment to):				
List Trained Employee(s):	List Trained Employee(s):					

ARCADIS

WEEKLY "WALK-AROUND"

	Date/Initials	S or NS	Date/Initials	S										
Odometer Reading														
Inside:														
Side & Rear-View Mirrors														
Horn and Door Locks														
Windshield wipers														
Heater, Defroster, AC														
Interior Lights & Panel/Gages														
Flashers & Turn Signals														
Parking & Emergency Brake														
Steering Wheel (excessive play?)														
Clutch (if applicable)														
Engine:														
Engine (start without problem?)														
Fluid Levels & Belts														
Noticeable Leaks														
Exterior:														
Lights, Flashers, Signals, Reflectors														
Tires (condition, inflation)														
Cargo Area/Tie-Downs Secure														
License Tags – Check Status (Date)														
Checked by - Name and initials	1		•		•		•		•		1		•	
1.	3.				5.					7.				
2.	4.				6.					8.				
Explanation:														

Motor Vehicle Safety Program ARC HSGE024 Rev. 12 2 May 2012

JSAs

Job Safety Analysis					
General					
JSA ID	8457	Status	(3) Completed		
Job Name	General Industry-Driving - passenger vehicles	Created Date	11/8/2012		
Task Description	Driving Company Van or Passenger Vehicle to, from, and on-site	Completed Date	11/21/2012		
Template	False	Auto Closed	False		

Client / Project				
Client	UTC			
Project Number	039940200001			
Project Name	Post-RA GW Mon			
PIC	SAUDA, DONALD F			
Project Manager	KAZZI, LANCE			

User Roles					
Role	Employee	Due Date	Completed Date	Supervisor	Active
Developer	Whipple, Curtis	11/26/2012	11/12/2012	Nelson, Bruce	
HASP Reviewer	Bobar, Aaron	11/26/2012	11/21/2012	Lang, Daniel	\square
Quality Reviewer	Castele, Daniel	11/23/2012	11/23/2012	Stewart, Stephen	Ø

Job Steps					
Job Step No.	Job Step Description		Potential Hazard	Critical Action	H&S Reference
1	Pre-Trip Inspection	1	Failure to perform inspection may lead to an accident, damage to the vehicle or regulatory citation.	Perform required pre-trip inspections by checking general condition of the vehicle on all sides. Do not operate a vehicle with an identified deficiency that will affect operation of the vehicle. Ensure emergency equipment is present, in good condition and unobstructed.	
2	Cargo Inspection	1	Failure to inspect cargo may lead to unstable vehicle operation, damage to cargo or vehicle, accident or regulatory citation.	Inspect cargo: Loaded properly in bed of truck, van, or on trailer, adequately secured to prevent movement, inspect securing devices. Use edge protection if sharp edged cargo is present and using tiedowns. Use flagging to mark projecting loads.	
3	Driving the Vehicle	1	Improper operation of a vehicle may result in accident, injury, death or regulatory citation.	Operate according to local speed and traffic laws. Only drive in approved lanes, where regulated. Maintain Smith System 5 Keys while driving, add seconds to 4 second rule when carrying heavy cargo. Keep eyes moving in all directions, including vertically. All devices such as cell phones, etc. must be powered off when driving the vehicle. Stop the vehicle in a safe parking area prior to using a mobile device or programing navigation systems. Use warning devices when stopped on side of roadway.	
4	Slowing and Stopping the vehicle	1	Improper braking or stopping of a vehicle may cause load shifts damaging cargo or vehicle, create accident by rear ending other vehicles, or cause vehicle to be struck by other vehicle or train.	Brake early and gradually, slow and proceed with caution at railroad grade crossings. Stop at railroad grade crossings if transporting placarded quantity of hazmat per ARCADIS Transportation Safety Program.	
5	Backing and Parking	1	Improper backing may result in striking other objects or persons, cause trailer to jackknife causing damage to trailer, truck or cargo.	Avoid situations where backing will be required. Use Smith System, GOAL prior to backing or ARCADIS spotter program. Plan all backing. Back slowly 1-3 mph. Keep eyes moving continuously and monitor front of the CMV as well as back of the CMV when backing. Avoid blind side backing situations.	DOT Facts 005a

5 Backing and Parking	2	I make a beautiful at a contract	Use pull through parking when permitted. Park in open areas of parking lots and select routes that reduce exposure to pedestrians in parking lots. Use horn in a proactive manner to communicate with other drivers and pedestrians.	
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PPE	Personal Protective Equipment						
Туре	Personal Protective Equipment	Description	Required				
Hand Protection	work gloves (specify type)	Leather or other during trailer coupling	Required				
Miscellaneous PPE	traffic vestClass II or III		Required				

Supplies			
Туре	Supply	Description	Required
Miscellaneous	fire extinguisher		Required
	first aid kit		Required
	flashlight		Required
	Other	Spare fuses	Required
Traffic Control	Other	Warning devices (triangles, etc.)	Required

		Training devices (mangies, etc.)
Review Comm	nents	
Reviewer		Comments
Employee: Role Review Type Completed Date	Bobar, Aaron HASP Reviewer Revise 11/11/2012	The HASP you provided indicates that CMV will not apply to this project - are you driving an CMV, and if so, what type? If not - use the JSA template for passenger vehicles, or revise this JSA to remove references to CMV. Also, you may want to add a reminder that cell phones must be turned off while driving. Thanks!
Employee: Role Review Type Completed Date	Bobar, Aaron HASP Reviewer Approve 11/21/2012	As per our discussion, this looks good Thanks
Employee: Role Review Type Completed Date	Castele, Daniel Quality Reviewer NA 11/23/2012	Good point regarding CMV versus passenger vehicles. Otherwise JSA is very thorough.

Job Safety Analysis									
General									
JSA ID	8512	Status	(3) Completed						
Job Name	Environmental-Soil sampling/well installation - manual	Created Date	11/15/2012						
Task Description	Soil Sampling using Hand Auger	Completed Date	12/13/2012						
Template	False	Auto Closed	True						

Client / Project							
Client	DEPT. OF TOXIC SUBSTANCES CONTROL						
Project Number	RV0098950001						
Project Name	Central Valley Fertilizer						
PIC	BEATTY, JENIFER JUNE						
Project Manager	BEATTY, JENIFER JUNE						

User Roles

Role	Employee	Due Date	Completed Date	Supervisor	Active
Developer	Frattali, John	12/6/2012	11/15/2012	Kudlinski, David	Ø
HASP Reviewer	Merrifield, Christopher	11/29/2012		Burgess, Thomas	
Quality Reviewer	Ely, Jessica	12/13/2012	12/13/2012	Phillips, Hollis	☑

Job Steps

Job Step No.	Job Step Description		Potential Hazard	Critical Action	H&S Reference
1	Sampling set-up	1	Underground utilities could be encountered during hand augering	Follow the Utility Clearance HS Standard	Utility Clearance HS Standard ARCHSF019
		2	Muscle fatigue can occur from lifting heavy equipment in and out of vehicle	Park as close as possible to the sample locations. Use lifting techniques outlined in the Field H&S Handbook	
		3	Slips/trips/falls could occur from uneven walking and working surfaces	Remove any gravel or debris from sampling location. Gravel will get stuck in auger and continue to fall back down in hole. A five gallon bucket with the bottom cut out will retain gravel from falling back down in the hole.	
2	Sampling set-up	1	Underground utilities could be encountered during hand augering	Follow the Utility Clearance HS Standard.	Utility Clearance HS Standard ARCHSF019
		2	Muscle strains can occur from lifting heavy equipment in and out of vehicle	Park as close as possible to the sampling locations. Use lifting techniques as outlined in the Field H&S Handbook.	
			Slips/trips/falls could occur from uneven walking and working surfaces	Remove any gravel or debris from sample location. Gravel will get stuck in auger or will continue to fall back down in hole. A five gallon bucket with the bottom cut out will retain gravel from falling back down in the hole.	
3	Installation of hand auger boring	1	Muscle strains from pulling/pushing could occur when installing the boring, and when removing the auger from the hole	Stretch out arms/back/shoulder muscles prior to beginning. Using firm grip on handle, slowly turn auger and progress downward in 6" increments. Slowly pull auger from holeuse legs to pull auger out of hole. If water is encountered, a suction will be created when trying to remove the auger. Ask for assistance from another worker if you can't remove safely on your own.	
		2	Hand strain and blisters could develop from prolonged hand augering	Select proper gloves for task, usually leather type work gloves or mechanics style gloves. If hot spots develop on hands (Hot Spots are where blisters start to form) readjust gloves or change to better padded glove. If blisters begin to form, stop work so as not to worsen blistering.	
		3	Over-exertion could occur when trying to force an auger forward if there is refusal.	If refusal occurs, Stop Work. Remove auger from hole and check hole with flashlight if possible. DO NOT overexert by using excessive force.	

3	Installation of hand auger boring	4	Fatigue can occur due to strenuous nature of hand augering activities	Take rest breaks as needed or switch out task with another employee.	
4	Collect Sample Soil Sample		Staff can come into contact with impacted soils	Wear chemical protective gloves as outlined in the HASP, and wear safety glasses.	
		2	Sharp edges and broken glassware can cause lacerations	Discard any broken sample containers or glass. Do not overtighten sample containers.	
		3	Containerizing and moving soil cuttings can cause muscle strains	Dispose of left over soil cuttings in a drum or bucket and dispose properly. Only fill buckets half full due to weight and strength of bucket. Wear leather work gloves and use good lifting techniques when handling buckets.	
5	Decon Hand Auger	1	Exposure to COCs while deconing equipment.	Wear chemical protective gloves as outlined in the HASP, and wear safety glasses.	
		2	Cleaning solutions can splash while deconing equipment	Use PPE as outlined in the HASP, and try to minimize splashing.	
		3	The end of the hand auger has sharp edges, and lacerations can occur	Use brush to scrub off soils and not hands. Do not reach into the nose (the end with teeth) of the auger with hand.	
6	Fill in Sample Location	1	Open boreholes are a trip hazard	Fill in hole with imported clean fill.	

PPE	Personal Protective Equipmen	nt	
Туре	Personal Protective Equipment	Description	Required
Eye Protection	safety glasses		Required
Foot Protection	steel-toe boots		Required
Hand Protection	chemical resistant gloves (specify type)	nitrile	Required
	work gloves (specify type)	leather	Required
Head Protection	hard hat		Required
Hearing Protection	ear plugs		Recommended
Miscellaneous PPE	traffic vestClass II or III		Required

Supplies

• •			
Туре	Supply	Description	Required
Communication Devices	mobile phone		Required
Decontamination	Decon supplies (specify type)		Required
Miscellaneous	first aid kit		Required
Personal	eye wash (specify type)	bottle	Required
	insect repellant		Recommended
	sunscreen		Recommended
	water/fluid replacement		Required

Review Comments

Reviewer	Comments					
Employee: Role Review Type Completed Date	Good JSA! I would also suggest that area housekeeping is required. Keep the area clean and organized to avoid slips and trips from something besides the borehole.					



Chain-of-Custody, Handling, Packing and Shipping

Rev. #: 2

Rev Date: March 6, 2009

Approval Signatures

Prepared by: Auon Yolf Caron Koll	Date:	3/6/09
Reviewed Sy Jane Kennedy(Technical Expert)	Date:	3/6/09



I. Scope and Application

This Standard Operating Procedure (SOP) describes the chain-of-custody, handling, packing, and shipping procedures for the management of samples to decrease the potential for cross-contamination, tampering, mis-identification, and breakage, and to insure that samples are maintained in a controlled environment from the time of collection until receipt by the analytical laboratory.

II. Personnel Qualifications

ARCADIS field sampling personnel will have current health and safety training, including 40-hour HAZWOPER training, Department of Transportation (DOT) training, site supervisor training, and site-specific training, as needed. In addition, ARCADIS field sampling personnel will be versed in the relevant SOPs and possess the skills and experience necessary to successfully complete the desired field work.

III. Equipment List

The following list provides materials that may be required for each project. Project documents and sample collection requirements should be reviewed prior to initiating field operations:

- indelible ink pens (black or blue);
- polyethylene bags (resealable-type);
- clear packing tape, strapping tape, duct tape;
- chain of custody
- DOT shipping forms, as applicable
- custody seals or tape;
- appropriate sample containers and labels,;
- insulated coolers of adequate size for samples and sufficient ice to maintain
 4°C during collection and transfer of samples;
- wet ice;
- cushioning and absorbent material (i.e., bubble wrap or bags);

- temperature blank
- sample return shipping papers and addresses; and
- field notebook.

IV. Cautions

Review project requirements and select appropriate supplies prior to field mobilization.

Insure that appropriate sample containers with applicable preservatives, coolers, and packing material have been supplied by the laboratory.

Understand the offsite transfer requirements for the facility at which samples are collected.

If overnight courier service is required schedule pick-up or know where the drop-off service center is located and the hours of operation. Prior to using air transportation, confirm air shipment is acceptable under DOT and International Air Transport Association (IATA) regulation

Schedule pick-up time for laboratory courier or know location of laboratory/service center and hours of operation.

Understand DOT and IATA shipping requirements and evaluate dangerous goods shipping regulations relative to the samples being collected (i.e. complete an ARCADIS shipping determination). Review the ARCADIS SOPs for shipping, packaging and labeling of dangerous goods. Potential samples requiring compliance with this DOT regulation include:

- Methanol preservation for Volatile Organic Compounds in soil samples
- Non-aqueous phase liquids (NAPL)

V. Health and Safety Considerations

Follow health and safety procedures outlined in the project/site Health and Safety Plan (HASP).



Use caution and appropriate cut resistant gloves when tightening lids to 40 mL vials. These vials can break while tightening and can lacerate hand. Amber vials (thinner glass) are more prone to breakage.

Some sample containers contain preservatives.

- The preservatives must be retained in the sample container and should in no instance be rinsed out.
- Preservatives may be corrosive and standard care should be exercised to reduce potential contact to personnel skin or clothing. Follow project safety procedures if spillage is observed.
- If sample container caps are broken discard the bottle. Do not use for sample collection.

VI. Procedure

Chain-of-Custody Procedures

- Prior to collecting samples, complete the chain-of-custody record header information by filling in the project number, project name, and the name(s) of the sampling technician(s) and other relevant project information. Attachment 1 provides an example chain-o- custody record
- Chain-of-custody information MUST be printed legibly using indelible ink (black or blue).
- 3. After sample collection, enter the individual sample information on the chain-of-custody:
 - a. Sample Identification indicates the well number or soil location that the sample was collected from. Appropriate values for this field include well locations, grid points, or soil boring identification numbers (e.g., MW-3, X-20, SB-30). When the depth interval is included, the complete sample ID would be "SB-30 (0.5-1.0) where the depth interval is in feet. Please note it is very important that the use of hyphens in sample names and depth units (i.e., feet or inches) remain consistent for all samples entered on the chain-of-custody form. DO NOT use the apostrophe or quotes in the sample ID. Sample names may also use the abbreviations "FB," "TB," and "DUP" as prefixes or suffixes to indicate that the sample is a field blank, trip blank, or field duplicate, respectively. NOTE: The sample

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nomenclature may be dictated by the project database and require unique identification for each sample collected for the project. Consult the project data management plan for additional information regarding sample identification.

- b. List the date of sample collection. The date format to be followed should be mm/dd/yy (e.g., 03/07/09) or mm/dd/yyyy (e.g. 03/07/2009).
- c. List the time that the sample was collected. The time value should be presented using military format. For example, 3:15 P.M. should be entered as 15:15.
- d. The composite field should be checked if the sample is a composite over a period of time or from several different locations and mixed prior to placing in sample containers.
- e. The "Grab". field should be marked with an "X" if the sample was collected as an individual grab sample. (e.g. monitoring well sample or soil interval).
- f. Any sample preservation should be noted.
- g. The analytical parameters that the samples are being analyzed for should be written legibly on the diagonal lines. As much detail as possible should be presented to allow the analytical laboratory to properly analyze the samples. For example, polychlorinated biphenyl (PCB) analyses may be represented by entering "PCBs" or "Method 8082." Multiple methods and/or analytical parameters may be combined for each column (e.g., PCBs/VOCs/SVOCs or 8082/8260/8270). These columns should also be used to present project-specific parameter lists (e.g., Appendix IX+3 target analyte list. Each sample that requires a particular parameter analysis will be identified by placing the number of containers in the appropriate analytical parameter column. For metals in particular, indicate which metals are required.
- h. Number of containers for each method requested. This information may be included under the parameter or as a total for the sample based on the chain of custody form used.
- i. Note which samples should be used for site specific matrix spikes.
- j. Indicate any special project requirements.

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- k. Indicate turnaround time required.
- I. Provide contact name and phone number in the event that problems are encountered when samples are received at the laboratory.
- m. If available attach the Laboratory Task Order or Work Authorization forms
- n. The remarks field should be used to communicate special analytical requirements to the laboratory. These requirements may be on a per sample basis such as "extract and hold sample until notified," or may be used to inform the laboratory of special reporting requirements for the entire sample delivery group (SDG). Reporting requirements that should be specified in the remarks column include: 1) turnaround time; 2) contact and address where data reports should be sent; 3) name of laboratory project manager; and 4) type of sample preservation used.
- The "Relinquished By" field should contain the signature of the sampling technician who relinquished custody of the samples to the shipping courier or the analytical laboratory.
- p. The "Date" field following the signature block indicates the date the samples were relinquished. The date format should be mm/dd/yyyy (e.g., 03/07/2005).
- q. The "Time" field following the signature block indicates the time that the samples were relinquished. The time value should be presented using military format. For example, 3:15 P.M. should be entered as 15:15.
- r. The "Received By" section is signed by sample courier or laboratory representative who received the samples from the sampling technician or it is signed upon laboratory receipt from the overnight courier service.
- 3. Complete as many chain-of-custody forms as necessary to properly document the collection and transfer of the samples to the analytical laboratory.
- 4. Upon completing the chain-of-custody forms, forward two copies to the analytical laboratory and retain one copy for the field records.
- If electronic chain-of-custody forms are utilized, sign the form and make 1 copy for ARCADIS internal records and forward the original with the samples to the laboratory.

Handling Procedures

- 1. After completing the sample collection procedures, record the following information in the field notebook with indelible ink:
 - · project number and site name;
 - sample identification code and other sample identification information, if appropriate;
 - sampling method;
 - date;
 - name of sampler(s);
 - time;
 - location (project reference);
 - location of field duplicates and both sample identifications;
 - locations that field QC samples were collected including equipment blanks, field blanks and additional sample volume for matrix spikes; and
 - any comments.
- 2. Complete the sample label with the following information in indelible ink:
 - sample type (e.g., surface water);
 - sample identification code and other sample identification information, if applicable;
 - analysis required;
 - date;
 - time sampled; and
 - initials of sampling personnel;

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- sample matrix; and
- preservative added, if applicable.
- Cover the label with clear packing tape to secure the label onto the container and to protect the label from liquid.
- 4. Confirm that all caps on the sample containers are secure and tightly closed.
- 5. In some instances it may be necessary to wrap the sample container cap with clear packing tape to prevent it from becoming loose.
- 6. For some projects individual custody seals may be required. Custody seal evidence tape may be placed on the shipping container or they may be placed on each sample container such that the cooler or cap cannot be opened without breaking the custody seal. The custody seal should be initialed and dated prior to relinquishing the samples.

Packing Procedures

Following collection, samples must be placed on wet ice to initiate cooling to 4°C immediately. Retain samples on ice until ready to pack for shipment to the laboratory.

- 1. Secure the outside and inside of the drain plug at the bottom of the cooler being used for sample transport with "Duct" tape.
- 2. Place a new large heavy duty plastic garbage bag inside each cooler
- 3. Place each sample bottle wrapped in bubble wrap inside the garbage bag. VOC vials may be grouped by sample in individual resealable plastic bags). If a cooler temperature blank is supplied by the laboratory, it should be packaged following the same procedures as the samples. If the laboratory did not include a temperature blank, do not add one. Place 1 to 2 inches of cushioning material (i.e., vermiculite) at the bottom of the cooler.
- 4. Place the sealed sample containers upright in the cooler.
- 5. Package ice in large resealable plastic bags and place inside the large garbage bag in the cooler. Samples placed on ice will be cooled to and maintained at a temperature of approximately 4°C.



- Fill the remaining space in the cooler with cushioning material such as bubble wrap. The cooler must be securely packed and cushioned in an upright position and be surrounded (Note: to comply with 49 CFR 173.4, filled cooler must not exceed 64 pounds).
- 7. Place the completed chain-of-custody record(s) in a large resealable bag and tape the bag to the inside of the cooler lid.
- 8. Close the lid of the cooler and fasten with packing tape.
- 9. Wrap strapping tape around both ends of the cooler.
- 10. Mark the cooler on the outside with the following information: shipping address, return address, "Fragile, Handle with Care" labels on the top and on one side, and arrows indicating "This Side Up" on two adjacent sides.
- 11. Place custody seal evidence tape over front right and back left of the cooler lid, initial and date, then cover with clear plastic tape.

Note: Procedure numbers 2, 3, 5, and 6 may be modified in cases where laboratories provide customized shipping coolers. These cooler types are designed so the sample bottles and ice packs fit snugly within preformed styrofoam cushioning and insulating packing material.

Shipping Procedures

- 1. All samples will be delivered by an express carrier within 48 hours of sample collection. Alternatively, samples may be delivered directly to the laboratory or laboratory service center or a laboratory courier may be used for sample pickup.
- If parameters with short holding times are required (e.g., VOCs [EnCore™
 Sampler], nitrate, nitrite, ortho-phosphate and BOD), sampling personnel will
 take precautions to ship or deliver samples to the laboratory so that the holding
 times will not be exceeded.
- 3. Samples must be maintained at 4°C±2°C until shipment and through receipt at the laboratory
- 4. All shipments must be in accordance with DOT regulations and ARCADIS dangerous goods shipping SOPs.



5. When the samples are received by the laboratory, laboratory personnel will complete the chain-of-custody by recording the date and time of receipt of samples, measuring and recording the internal temperature of the shipping container, and checking the sample identification numbers on the containers to ensure they correspond with the chain-of-custody forms.

Any deviations between the chain-of-custody and the sample containers, broken containers, or temperature excursions will be communicated to ARCADIS immediately by the laboratory.

VII. Waste Management

Not applicable

VIII. Data Recording and Management

Chain-of-custody records will be transmitted to the ARCADIS PM or designee at the end of each day unless otherwise directed by the ARCADIS PM. The sampling team leader retains copies of the chain-of-custody forms for filing in . the project file. Record retention shall be in accordance with project requirements.

IX. Quality Assurance

Chain-of-custody forms will be legibly completed in accordance with the applicable project documents such as Sampling and Analysis Plan (SAP), Quality Assurance Project Plan (QAPP), Work Plan, or other project guidance documents. A copy of the completed chain-of-custody form will be sent to the ARCADIS Project Manager or designee for review.

X. References

Not Applicable



ID#

SOP: Chain-of-Custody, Handling, Packing and Shipping

CHAIN OF CUSTODY & LABORATORY

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Attachment 1

Infrastructure, environment, facilities				CHE		ALYS				RM		age	of	Lab W	ork Order#				
Contact & Company Name	Telephone:					Preservative								Preservation	Keys Key: Container Information Key:				
ts tc)							A. H.SO.	1. 40	1. 40 ml Vial
Address:	Fax:					# of Contain	SHEET							B. HCL " C. HNO,	3. 250	Amber I ml Plastic			
a R						Containe								D NaOH E None	4 500 5 End	ml Plastic			
Address: City State Zip	E-mail Addre	95.					PA	RAMET	ER AN	ALYSIS	& METH	IOD	,	F. Other	6. 2 o 7. 4 o	z. Glass z. Glass			
Project Name/Location (City, State)	Project #	Project of				/	/	/	/	/	/ /	/	/	H. Other	9, Ott				
Sampler's Printed Name	Printed Name: Sampler's Signature:												Matrix Key: SO - Soil W - Water		NL - NAPL/Oil SW - Sample Wipe				
Sample ID	1000000	ection			Matrix	/	/			/ /		/ / /		T-TISSUE REMARK	A-Air Other	Other			
	Date	Time	Comp	Grab		/			1		1			KLWAKI					
Special Instructions/Comments:									Florestell	QA/QC Instri									
Special instructions/comments:									□speciai	QAUQC INSTR	uctions(v):								
Laboratory Informa	ation and Rec	eipt				Reli	nquished By			Received B	Зу	F	Relinquished	d By	Laboratory	Received By			
Lab Name.	Cooler C	ustody Se	al (<)		Printer	d Name.			Printed Name	e.		Printed Name	t.	F	Printed Name.				
☐ Cooler packed with ice (*)	□ Inta	ct	□ N	ot Intact	Signal	ture.			Signature.			Signature:		4	Signature:				
Speciey Turnaround Requirements:	Sample F	Receipt:			Fim:				Firm/Couner			Firm/Couner	i	F	Firm:				
Shipping Tracking #.	Condition	/Cooler T	emp:		Date/1	lime:			Date/Time:			Date/Time:		c	Date/Time:				

20730826 CefC AR Ferm 01.12.2007

Distribution:

WHITE - Laboratory returns with results

YELLOW - Lab copy

PINK - Retained by BBL